



NORTH DAKOTA STATE DEPARTMENT OF HEALTH  
Air Pollution Control Program  
State Capitol  
Bismarck, North Dakota 58501

ANNUAL EMISSION INVENTORY REPORT  
FORM AP 301  
FUEL BURNING EQUIPMENT USED FOR INDIRECT HEATING  
Calendar Year 1976

1. Name of Firm or Organization: Montana-Dakota Utilities Co.
2. Plant Location: Mandan, North Dakota
3. Permit to Operate Number: F76001
4. Source Unit Number (from Permit to Operate): 2
5. Type and Quantity of Fuel Used:

	PRIMARY FUEL	STANDBY FUEL
	Type <u>Lignite</u> Quantity per year <u>376,017 Tons</u> (Specify Units)  Delivered Cost of fuel <u>\$5.81/Ton</u> (\$/Unit Quantity)	Type <u>N.A.</u> Quantity per year (Specify Units)  Delivered Cost of fuel (\$/Unit Quantity)
PERCENT ASH (Solid Fuel Only) Max. Min. Avg.	9.95 5.55 7.23	
PERCENT SULFUR Max. Min. Avg.	0.98 0.44 0.75✓	
BTU PER UNIT Max. Min. Avg.	7210 6730 6995	

6. Monthly Fuel Use:

QUANTITY			QUANTITY		
MONTH	PRIMARY FUEL	STANDBY FUEL	MONTH	PRIMARY FUEL	STANDBY FUEL
	Type <u>Lignite</u>	Type <u>N.A.</u>		Type <u>Lignite</u>	Type <u>N.A.</u>
	Units <u>Tons</u>	Units <u>      </u>		Units <u>Tons</u>	Units <u>      </u>
Jan.	37,273		July	32,287	
Feb.	32,818		Aug.	28,764	
March	30,790		Sept.	20,766	
April	18,510		Oct.	40,854	
May	30,858		Nov.	38,282	
June	24,852		Dec.	39,963	

7. Hourly Fuel Use:

	QUANTITY	
	PRIMARY FUEL	STANDBY FUEL
	Type <u>Lignite</u> Units <u>Tons</u>	Type <u>N.A.</u> Units <u>      </u>
Maximum	56.9	
Average	49.0	

8. Normal Schedule of Operation:

Hours Per Day 24 Weeks Per Year 48

Days Per Week 7 Peak Season January & August  
(Specify Months of Year)

Total Hours Per Year 7667.5 (1976)

9. Stack Emissions:

POLLUTANT	QUANTITY POUNDS PER HOUR (AVERAGE)	TONS PER YEAR
Particulate	12.8	49
Sulfur Dioxide	895	3431
Nitrogen Oxides	Unknown	-
Other (Specify)	-	-

Basis For Quantities Listed Above:

Particulate data is based on tests run in September, 1976.  
Sulfur dioxide data is based on tests run in August, 1972.  
No tests have been run for nitrogen oxides.

10. Name of Person Submitting Report (Print or Type) Earl F. Backhaus

Title Ass't. Manager, Power Production Phone (701) 224-3000

*I declare under the penalties of perjury that this report has been examined by me and to the best of my knowledge and belief is a true, correct, and complete report.*

(Signed)

Earl F. Backhaus Date Feb. 15, 1977